

1 **What is claimed is :**

- 2 1. A double sided chip package comprising:
- 3 a LOC lead frame having a plurality of leads, wherein each lead being from inside to
4 outside divided into a supporting portion, an inner connecting portion and an outer
5 connecting portion;
- 6 an upper chip having a plurality of bonding pads on its upper surface and being fixed
7 to the top of the supporting portions of the leads with its bottom surface;
- 8 a bottom chip having a plurality of bonding pads and being fixed to the bottom of the
9 supporting portions of the leads with its top surface;
- 10 a plurality of bonding wires electrically connecting the bonding pads of the upper
11 chip to the inner connecting portions of the corresponding leads, and the bonding
12 pads of the bottom chip to the inner connecting portions of the corresponding leads,
13 respectively; and
- 14 a package body sealing the upper chip, the bottom chip, the bonding wires, the
15 supporting portions and the inner connecting portions of the leads.
- 16 2. The double sided chip package in accordance with claim 1, further comprising a
17 plurality of tapes fixing the upper chip and the bottom chip to the supporting portions
18 of the leads.
- 19 3. The double sided chip package in accordance with claim 1, further comprising a
20 epoxy compound fixing the upper chip and bottom chip on the supporting portions of
21 the leads.
- 22 4. The double sided chip package in accordance with claim 1, wherein the supporting
23 portions and the inner connecting portions of a plurality of leads are formed on the
24 same plane.
- 25 5. The double sided chip package in accordance with claim 4, wherein the supporting
26 portions and the inner connecting portions of a plurality of leads are formed on the
27 same plane with equal distance to the upper chip and the bottom chip.

1 6. The double sided chip package in accordance with claim 1, wherein the LOC lead
2 frame additionally includes at least a power lead comprising a supporting portion
3 sandwiched between the upper chip and the bottom chip, and is perpendicular to the
4 supporting portions of the other leads.

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